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A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

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JOHN F. SEYMOUR  
(202) 683-8264

June 6, 1995

BY TELECOPY AND  
FEDERAL EXPRESS

Mr. William Steuteville  
On-Scene Coordinator  
Superfund Removal Branch  
U.S. Environmental Protection Agency  
Region III  
841 Chestnut Building  
Philadelphia, PA 19107-4431

Re: Rogers Electric Site (Cheverly, MD)

Dear Mr. Steuteville:

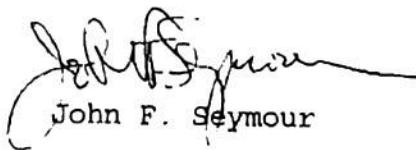
Attached is a report prepared by R.E. Wright Environmental, Inc. (REWEI) of soil sampling conducted at the former Rogers Electric Site in Cheverly, Maryland in May, 1995. The report confirms that PCB contamination above action levels is limited to a small area in the extreme northwest corner of the site.

This is to advise you that Blake will, as required by EPA's Notice of Liability, excavate and properly dispose of all PCB contaminated soils and asphalt greater than 10 ppm as set forth in the attached proposal. Work is scheduled to begin on Monday, June 12 or Tuesday, June 13.

Mr. William Steuteville  
June 6, 1995  
Page 2

Please call me at (202) 663-8254 or Tim Gardner of REWEI  
at (410) 876-0280 if you have any questions or concerns about  
the attached.

Sincerely,

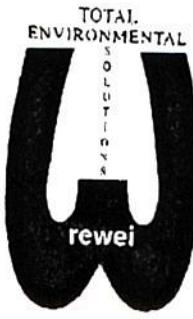


John F. Seymour

Attachment

cc: Chester White, Blake Construction  
Tim Gardner, REWEI

170454



An **SAC** company

## R.E. Wright Environmental, Inc.

June 5, 1995

Mr. J. C. White  
V.P. of Property Management  
Blake Construction Co., Inc.  
1150 Connecticut Ave., NW  
Washington, DC 20036-4104

Re: Soil Sample Analyses Results for  
the Second Round of Sampling  
at Rogers Electric Site  
REWEI Project M95239

Dear Mr. White:

On May 5, 1995, R. E. Wright Environmental Inc. (REWEI) collected surface soil and/or asphalt samples at the Rogers Electric site in Cheverly, Maryland. The sampling was performed in response to positive analyses for polychlorinated biphenyls (PCBs) in soil samples previously collected in the same area by Environmental Protection Agency (EPA) and REWEI personnel.

The sampling configuration used by REWEI was intended to confirm the presence of a small localized PCB contaminated area in the northwest corner of the site. A total of ten samples were collected as shown on the attached Figure 1.

Sample locations were identified in the field with wire flags. Dedicated sampling spoons were used to collect each soil sample. A hammer and chisel were used to collect asphalt samples. The chisel was decontaminated between samples. The sampling technician worked under Level D protocol. Each sample was placed in a laboratory supplied 125 ml sample jar with a teflon lined lid. Each jar was labeled and logged on a chain-of-custody form and submitted to Maryland Spectral Services, Inc. (MSSI) for analyses. The samples were analyzed for the presence of PCBs by U.S. EPA Methods 3540/8080 using capillary chromatography. A copy of the analyses report is attached.

Mr. J.C. White

2

June 5, 1995

The results of the laboratory analyses indicate detectable concentrations of PCBs in nine of the ten samples analyzed. Eight of the positive samples contained PCBs at concentrations of less than 2 parts per million (2 ppm). The ninth contained 31.5 ppm.

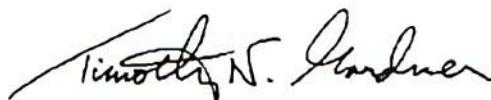
The results of REWEI's current sampling and analyses effort confirms that the PCB contamination exists in the northwest corner of the site, mostly within the perimeter of the sample configuration. The only sample with contamination above the action level of 10 ppm at the southern limit of the area sampled has a relatively low concentration of PCB (31.5 ppm). Therefore, REWEI recommends excavation of the area, (including the area surrounding and 5 feet south of this sample point) without further sampling. REWEI's proposed excavation plan is attached.

Upon authorization by Blake Construction Co., Inc., REWEI will conduct the necessary excavation and disposal activities in accord with REWEI Proposal Number MP95096 which was issued under the Standard Terms and Conditions of our original contract for the previous PCB removal.

Should you have questions or wish to discuss this, don't hesitate to call me at (410) 876-0280.

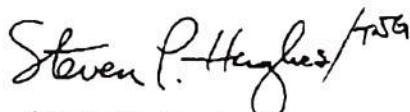
Sincerely,

R. E. WRIGHT ENVIRONMENTAL, INC.



Timothy N. Gardner  
Project Manager

Reviewed and Approved by:



Steven P. Hughes  
General Manager  
Maryland Office

TNG:aea  
Attachment

M19955239L1

r.e. wright environmental, inc.

## EXCAVATION PLAN

The most recent sampling and analysis of soil collected at the Rogers Electric site indicates that the PCB contamination identified by EPA sampling is localized within an area approximately 35 by 15 feet. The contaminated soil is located largely within the perimeter of the sampled area. Nine of the ten samples contained PCB in concentrations of less than two parts per million (2 ppm). One of the samples contained 31.5 ppm PCB. The proposed excavation is limited to the removal of PCB-contaminated material within the 35 by 15-foot area so that residual concentrations of PCBs in soil are less than 10 ppm.

As shown on the attached figure, contamination concentrations diminish from the northernmost sample contaminated above 10 ppm (20,000 ppm at S-5) to the southernmost sample (31.5 ppm at S-9). On the basis of that trend, REWEI proposes to extend the excavation area a minimum of five feet south of S-9. The remainder of the excavated area will be within the sample point locations currently indicating less than 10 ppm. This work is intended to remediate identified contamination to below action levels.

Previous cleanup work at this site indicated no PCB contamination above 10 ppm at depths of greater than one foot. Therefore, REWEI recommends that the initial excavation south of the fence be no deeper than one foot. However, due to an anomalously high concentration in the S-5 sample (20,000 ppm), REWEI recommends that the excavation be extended to a depth of 2-3 feet in that vicinity. The excavation is proposed to extend north down the slope to as close to Beaver Dam Creek as is practical.

### Confirmation Sampling

After the excavation is complete, REWEI proposes to collect four samples from the fence to the northern extent of the excavation, and four samples from the fence to the southern extent of the excavation. The samples will be collected in an approximately even spaced configuration to be representative of each half of the excavation. The four samples collected from each of the two areas of the excavation will be composited so that two samples are analyzed for PCBs. The results of the analyses will be used to determine whether contamination above action levels has been removed.

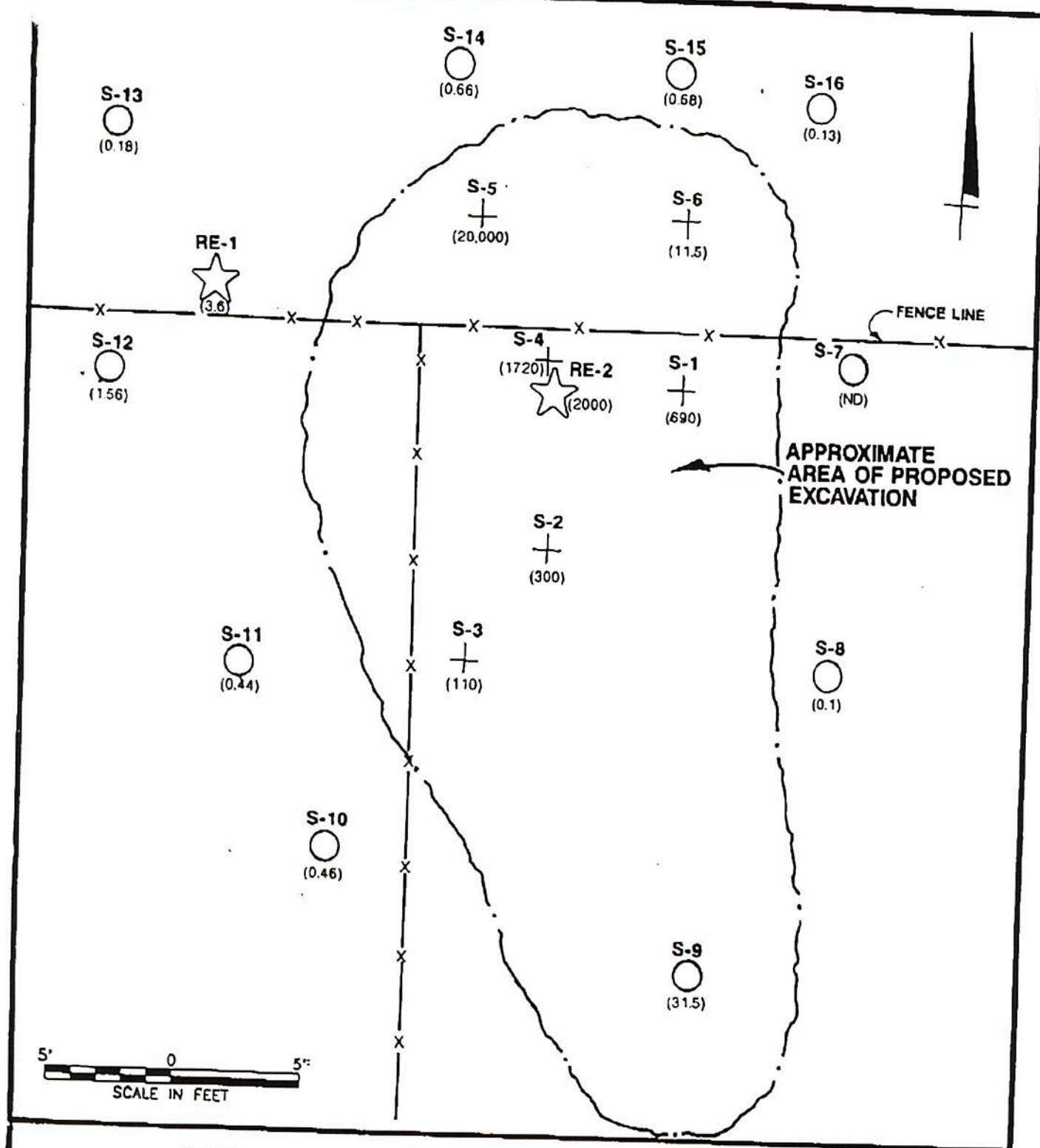
### Health And Safety

Personnel working on the excavation and removal activities will work under Level C protection due to potentially dusty conditions. Previous PCB cleanup activities carried out at this site involved extensive personal and area air monitoring. The results of those monitoring efforts indicated non-detectable concentrations of PCBs above laboratory quantitation levels. Therefore, no monitoring will be conducted during this removal process which is estimated to last one day.

### Transportation And Disposal

Excavated material will be placed in a dump trailer and will be trucked by Clean Harbors, Inc., a licensed hazardous waste hauler, to Chem Waste Management's Model City landfill in New York for disposal.

r.e. wright environmental, inc.

LEGEND

EPA COLLECTED SAMPLE (OCT. 1994)



FIRST ROUND REWEI SAMPLES (APRIL. 1995)



SECOND ROUND REWEI SAMPLES (MAY. 1995)



(31.5) CONCENTRATIONS OF PCB'S IN PPM

FIGURE 1

BLAKE CONSTRUCTION  
COMPANY, INC.ROGERS ELECTRIC  
SAMPLE LOCATION MAP

Drawn DCD	Approved	Drawing No.
checked	Date 6/2/95	85239-002-A

R.E. Wright Associates, Inc.  
earth resources consultants

# **MARYLAND SPECTRAL SERVICES, INC.**

**1500 CATON CENTER DRIVE, BALTIMORE, MD 21227**

**(410) 247-7600**

## **LABORATORY RESULTS**

**RESULTS OF ANALYSIS OF THE  
BLAKE CONSTRUCTION SOIL SAMPLES  
COLLECTED 5 MAY 1995**

**Prepared For  
R. E. WRIGHT ENVIRONMENTAL, INC.  
WESTMINSTER, MD**

**22 May 1995**

SAMPLE DATA SUMMARY PACKAGE

Table of Contents

1. Narrative
2. Chain-of-Custody Records
3. Results of Analyses
4. Chromatograms of Samples and Method Blanks

## **1. Narrative**

**NARRATIVE**

Laboratory Name: Maryland Spectral Services, Inc. (MSS)

Date Samples Delivered to MSS Laboratory: 8 May 1995

Project: Blake Construction; #95239

Project Manager: Mr. Tim Gardner

Results for the following samples are included in this data package:

<b>Client ID</b>	<b>MSS ID</b>	<b>Matrix</b>	<b>Analysis</b>
S-7	950508-39	Soil	PCBs (8080)
S-8	950508-40	Soil	PCBs (8080)
S-9	950508-41	Soil	PCBs (8080)
S-10	950508-42	Soil	PCBs (8080)
S-11	950508-43	Soil	PCBs (8080)
S-12	950508-44	Soil	PCBs (8080)
S-13	950508-45	Soil	PCBs (8080)
S-14	950508-46	Soil	PCBs (8080)
S-15	950508-47	Soil	PCBs (8080)
S-16	950508-48	Soil	PCBs (8080)

The Polychlorinated Biphenyls (PCBs) analyses were performed by U.S. EPA Methods 3540/8080 (Soxhlet/GC/ECD). Fifteen grams of each sample was extracted in a Soxhlet apparatus. The extracts were taken to a final volume of 10 mL and analyzed by GC/ECD using capillary chromatography.

Results of analysis are presented in Section 3 and are reported as milligrams per kilogram (parts per million) on a dry-weight basis.

All sample preparations and analyses were completed within the required holding time limitations.

Each sample, standard, and blank was spiked with the surrogate compound dibutyl chlorendate (DBC) to monitor method performance. Results of surrogate recoveries are presented in Section 3.

Chromatograms of samples and method blank analyses are provided in Section 4.

RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY DATA PACKAGE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR HIS DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

Michael M. Robison  
Michael M. Robison

DATE: 22 May 95  
22 May 1995

**2. Chain-of-Custody Records**

Company Name: <b>REWEI</b>	Project Manager: <b>TNG</b>	Parameters						CHAIN-OF-CUSTODY RECORD		
Project Name: <i>ROGERS ELECT.</i> <i>OR</i> <b>BLAKE CONST.</b>	Project ID: <b>95239</b>	No. of Containers <b>PCBs 8080</b>						Maryland Spectral Services, Inc. 1500 Calon Center Drive, Suite G Baltimore, MD 21227 (410) 247-7600		
Sampler(s): <b>TAB</b>	P.O. Number: <b>140383</b>									
Field Sample ID	Date	Time	Water	Soil	Other	Preservative/Remarks			MSS Lab ID	
S-7	5/8/95	AM	✓		1	✓	CHILL/			950508-39
S-8	"		✓		1	✓				40
S-9	"		✓		1	✓				41
S-10	"		✓		1	✓				42
S-11	"		✓		1	✓				43
S-12	"		✓		1	✓				44
S-13	"		✓		1	✓				45
S-14	"		✓		1	✓				46
S-15	"		✓		1	✓				47
S-16	"		✓		1	✓				48
Relinquished by: (Signature) <i>Tim Gardner</i>	Date/Time <b>5/8/95</b>	Received by: (Signature) <b>REWEI REFEQ</b>	Relinquished by: (Signature) <i>Stephen J. Cherry</i>	Date/Time <b>5/8/95</b>	Received by: (Signature)					
(Printed) <b>TIM GARDNER</b>	(Printed)	(Printed)	(Printed) <b>STEPHEN J. CHERRY</b>	(Printed) <b>17:34</b>	(Printed)					
Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature)	Date/Time	Remarks						
(Printed)		(Printed) <i>S. G. HAMNER</i>	<b>5/8/95</b>		<b>1734</b>					

### **3. Results of Analyses**

MARYLAND SPECTRAL SERVICES, INC.  
1500 Caton Center Drive Baltimore, MD 21227

PCBs BY EPA METHODS 3540/8080 (MODIFIED)

CLIENT SAMPLE ID:	S-7	S-8	S-9	S-10	S-11	S-12
LAB SAMPLE ID:	BLAKE	BLAKE	BLAKE	BLAKE	BLAKE	BLAKE
SAMPLE DATE:	05/05/95	05/05/95	05/05/95	05/05/95	05/05/95	05/05/95
RECEIVED DATE:	05/08/95	05/08/95	05/08/95	05/08/95	05/08/95	05/08/95
EXTRACTION DATE:	05/12/95	05/12/95	05/12/95	05/12/95	05/12/95	05/12/95
ANALYSIS DATE:	05/16/95	05/16/95	05/16/95	05/16/95	05/16/95	05/16/95
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
PERCENT MOISTURE:	4 %	4 %	10 %	17 %	2 %	22 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
DILUTION FACTOR:	1	1	100	1	1	1
COMPOUND	(Results are reported on a dry-weight basis.)					
Aroclor-1016	0.10 U	0.10 U	11.1 U	0.12 U	0.10 U	0.13 U
Aroclor-1221	0.10 U	0.10 U	11.1 U	0.12 U	0.10 U	0.13 U
Aroclor-1232	0.10 U	0.10 U	11.1 U	0.12 U	0.10 U	0.13 U
Aroclor-1242	0.10 U	0.10 U	11.1 U	0.12 U	0.10 U	0.13 U
Aroclor-1248	0.10 U	0.10 U	11.1 U	0.12 U	0.10 U	0.13 U
Aroclor-1254	0.10 U	0.10 U	11.1 U	0.12 U	0.10 U	0.13 U
Aroclor-1260	0.10 U	<u>0.10</u>	<u>31.5</u>	<u>0.46</u>	<u>0.44</u>	<u>1.56</u>
Surrogate Recovery (DBC)	83 %	67 %	DL	44 %	14 %	40 %

U - Below Reported Quantitation Level

MG/KG - Milligram per Kilogram

DL - Surrogate Diluted Out

**MARYLAND SPECTRAL SERVICES, INC.**  
1500 Caton Center Drive Baltimore, MD 21227

PCBs BY EPA METHODS 3540/8080 (MODIFIED)

CLIENT SAMPLE ID:	S-13	S-14	S-15	S-16	METHOD BLANK	METHOD BLANK
	BLAKE	BLAKE	BLAKE	BLAKE		
LAB SAMPLE ID:	95050845	95050846	95050847	95050848	PS-BLK12	PS-BLK15
SAMPLE DATE:	05/05/95	05/05/95	05/05/95	05/05/95		
RECEIVED DATE:	05/08/95	05/08/95	05/08/95	05/08/95		
EXTRACTION DATE:	05/12/95	05/12/95	05/12/95	05/15/95	05/12/95	05/15/95
ANALYSIS DATE:	05/16/95	05/16/95	05/16/95	05/16/95	05/16/95	05/16/95
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
PERCENT MOISTURE:	20 %	10 %	12 %	15 %		
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
DILUTION FACTOR:	1	1	1	1	1	1
COMPOUND	(Results are reported on a dry-weight basis.)					
Aroclor-1016	0.12 U	0.11 U	0.11 U	0.12 U	0.10 U	0.10 U
Aroclor-1221	0.12 U	0.11 U	0.11 U	0.12 U	0.10 U	0.10 U
Aroclor-1232	0.12 U	0.11 U	0.11 U	0.12 U	0.10 U	0.10 U
Aroclor-1242	0.12 U	0.11 U	0.11 U	0.12 U	0.10 U	0.10 U
Aroclor-1248	0.12 U	0.11 U	0.11 U	0.12 U	0.10 U	0.10 U
Aroclor-1254	0.12 U	0.11 U	0.11 U	0.12 U	0.10 U	0.10 U
Aroclor-1260	<u>0.18</u>	<u>0.66</u>	<u>0.68</u>	<u>0.13</u>	0.10 U	0.10 U
Surrogate Recovery (DBC)	50 %	38 %	60 %	58 %	75 %	77 %

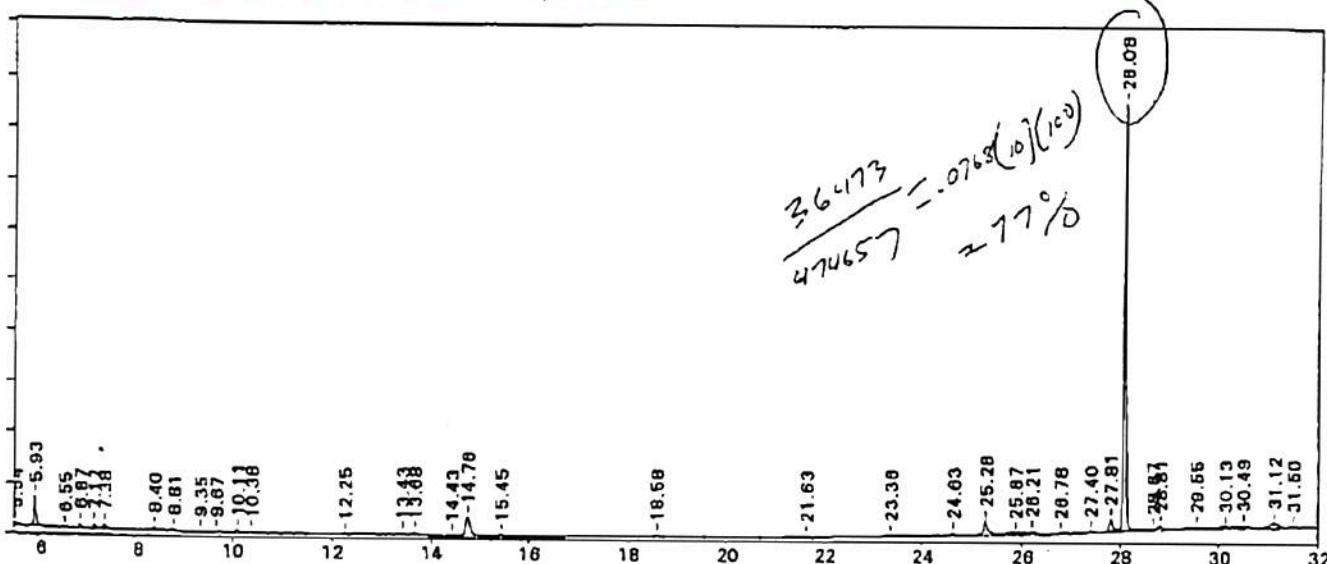
U - Below Reported Quantitation Level  
MG/KG - Milligram per Kilogram  
DL - Surrogate Diluted Out

**4. Chromatograms of Samples and Method Blanks**

File=C:\DIRECT\DATAA1\0515A.40R Date printed=05-16-1995 Time= 16:28:00

Sample Name=PS-BLK15

5.5 to 32.0 min. Low Y=125.042 High Y=168.799 mV Span=43.757



\*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

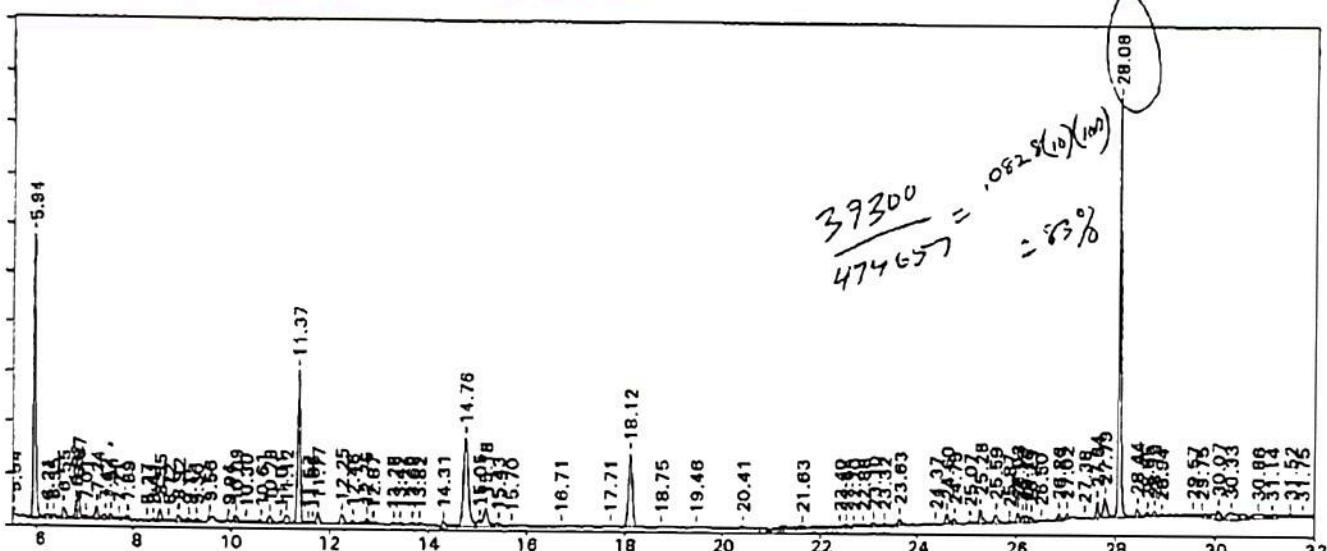
\* SAMPLE NAME: PS-BLK15  
\* ANALYSIS DATE: May 16, 1995 16:26:02  
\* OPERATOR: KD  
\* INSTRUMENT ID: GC-A--ECD  
\* METHOD FILE: C:\DIRECT\DATAA1\RUN.MET  
\* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.40R  
\* RUN TIME: 32  
  
\* DILUTION FACTOR: 1 RTX-5 30Mx0.32mm 1 UL INJ  
\* AMOUNT INJECTED: 1 PEST/PCB BY 8080 MODIFIED

\*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

Peak #	Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.272		BV	84263	19734
2	1.340		VV	308198	24712
3	1.691		VV	44995	7660
4	1.797		VV	35884	7151
5	1.885		VV	13795	5216
6	1.955		VV	27493	8885
7	2.008		VV	27153	12839
8	2.044		VV	74997	14760
9	2.174		VV	192526	26574
10	2.353		VV	76921	12758
11	2.556		VV	37544	2843
12	3.087		VV	34730	5214
13	3.253		VV	11595	1550
14	3.681		VV	2154	575
15	3.761		VV	3482	652
16	3.927		VV	5545	1196
17	4.150		VV	7480	1717
18	4.240		VV	4586	972
19	4.381		VV	10288	3791
20	4.633		VV	3241	338
21	4.762		VV	3464	492
22	5.080		VV	1606	453
23	5.130		VV	4159	1237
24	5.305		VB	3303	609
25	5.536		BB	500	211
26	5.935		BB	8326	2570

Sample Name=950508-39

5.5 to 32.0 min. Low Y=125.282 High Y=172.967 mv Span=47.685



\*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

\* SAMPLE NAME: 950508-39  
 \* ANALYSIS DATE: May 16, 1995 10:28:32  
 \* OPERATOR: KD  
 \* INSTRUMENT ID: GC-A--ECD  
 \* METHOD FILE: C:\DIRECT\DATAA1\RUN.MET  
 \* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.30R  
 \* RUN TIME: 32  
 \*  
 \* DILUTION FACTOR: 1  
 \* AMOUNT INJECTED: 1

*Aliquot 16786 = .0202(10) = 0.14 mg  
 832255 15(.46) 5*

*DL = 0.10*

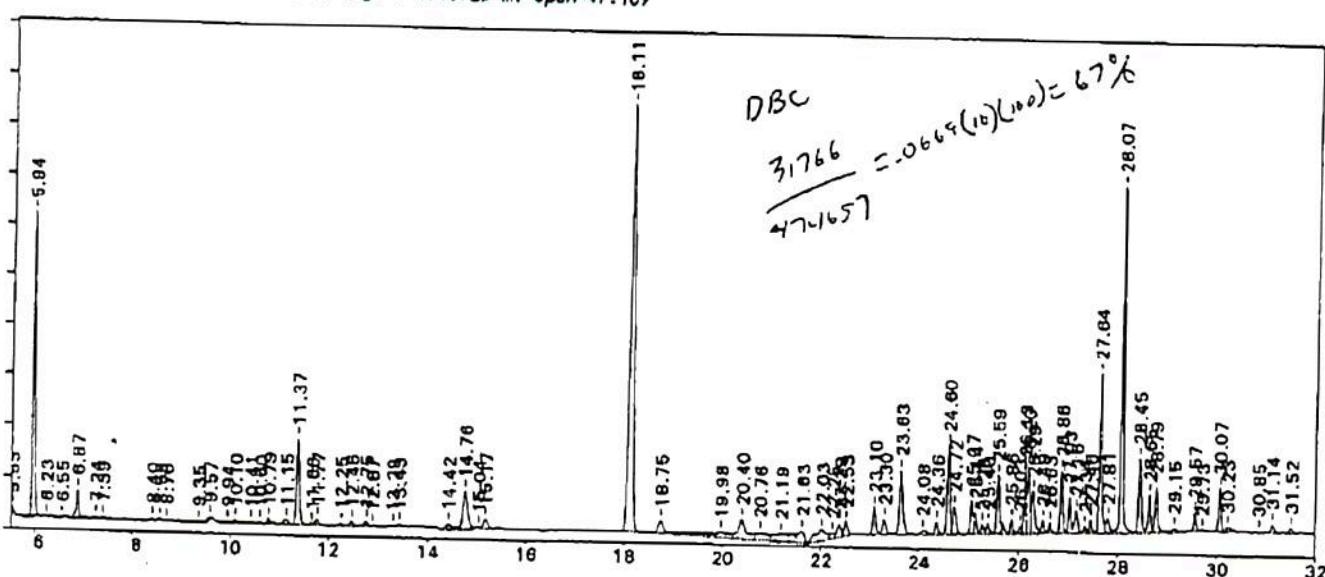
RTX-5 30Mx0.32mm 1 UL INJ  
 PEST/PCB BY 8080 MODIFIED

## \*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

Peak #	Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.241		BV	931555	79620
2	1.956		VV	7965	2764
3	2.056		VV	43299	6828
4	2.177		VB	108881	13562
5	2.713		BB	3466	689
6	2.983		BV	618	135
7	3.156		VV	29683	7335
8	3.254		VV	16256	3857
9	3.400		VB	4810	870
10	3.631		BV	2377	364
11	3.927		VV	4598	1521
12	3.990		VV	8303	1983
13	4.149		VV	13902	3048
14	4.386		VV	1046	390
15	4.521		VV	3405	1013
16	4.589		VV	5316	1007
17	4.757		VV	4516	732
18	4.905		VB	1405	441
19	5.077		BB	3281	705
20	5.357		BB	749	239
21	5.540		BB	2211	739
22	5.942		BV	78974	26726
23	6.209		VV	1750	293
24	6.346		VV	2074	330
25	6.551		VV	5181	1089
26	6.815		VV	4453	1616

\$ Sample Name=950508-40

5.5 to 32.0 min. Low Y=124.536 High Y=171.725 mV Span=47.189



## \*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

\* SAMPLE NAME: 950508-40  
 \* ANALYSIS DATE: May 16, 1995 11:04:15  
 \* OPERATOR: KD  
 \* INSTRUMENT ID: GC-A--ECD  
 \* METHOD FILE: C:\DIRECT\DATAA1\RUN.MET  
 \* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.31R  
 \* RUN TIME: 32  
 \*  
 \* DILUTION FACTOR: 1  
 \* AMOUNT INJECTED: 1

$$\frac{4R126^{\circ}}{832255} \frac{i21281}{757.4L} = \frac{.1457(10)}{.1012} = .1012$$

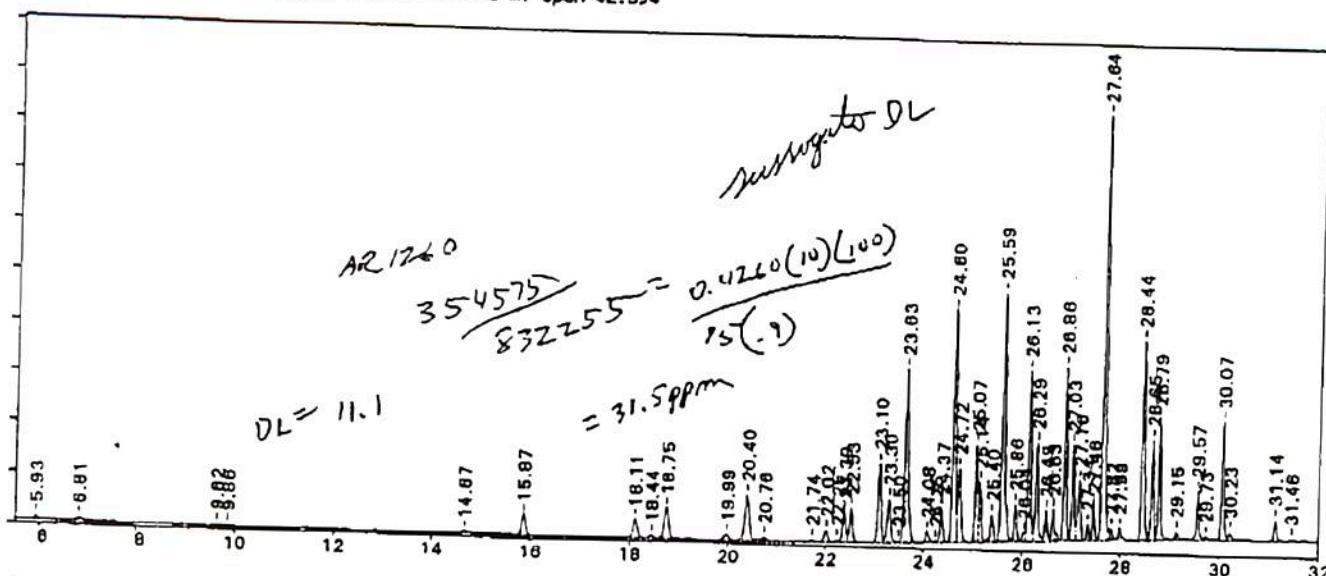
DL = .10

RTX-5 30Mx0.32mm 1 UL INJ  
PEST/PCB BY 8080 MODIFIED

## \*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

Peak #	Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.240		BV	968608	73227
2	2.057		VV	3954	1230
3	2.171		VV	105307	11511
4	2.789		VV	1275	298
5	2.957		VB	315	92
6	3.087		BB	463	180
7	3.421		BB	461	157
8	3.768		BB	1461	451
9	3.926		BV	9573	2580
10	4.151		VB	14422	3848
11	4.570		BV	419	188
12	4.649		VV	1250	273
13	4.797		VV	3183	696
14	4.905		VB	790	273
15	5.068		BV	870	304
16	5.128		VB	1812	515
17	5.355		BB	2308	850
18	5.452		BB	440	217
19	5.531		BB	1843	669
20	5.941		BB	81359	28211
21	6.227		BB	524	117
22	6.554		BB	326	113
23	6.866		BV	8954	2624
24	7.240		VV	1192	276
25	7.386		VB	1232	255
26	8.400		BB	541	188

File=C:\DIRECT\DATAA1\0515A.32R Date printed=05-16-1995 Time= 11:41:54  
 Sample Name=950508-41 1/100 DILN  
 5. to 32.0 min. Low Y=125.107 High Y=167.762 mV Span=42.654



\*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

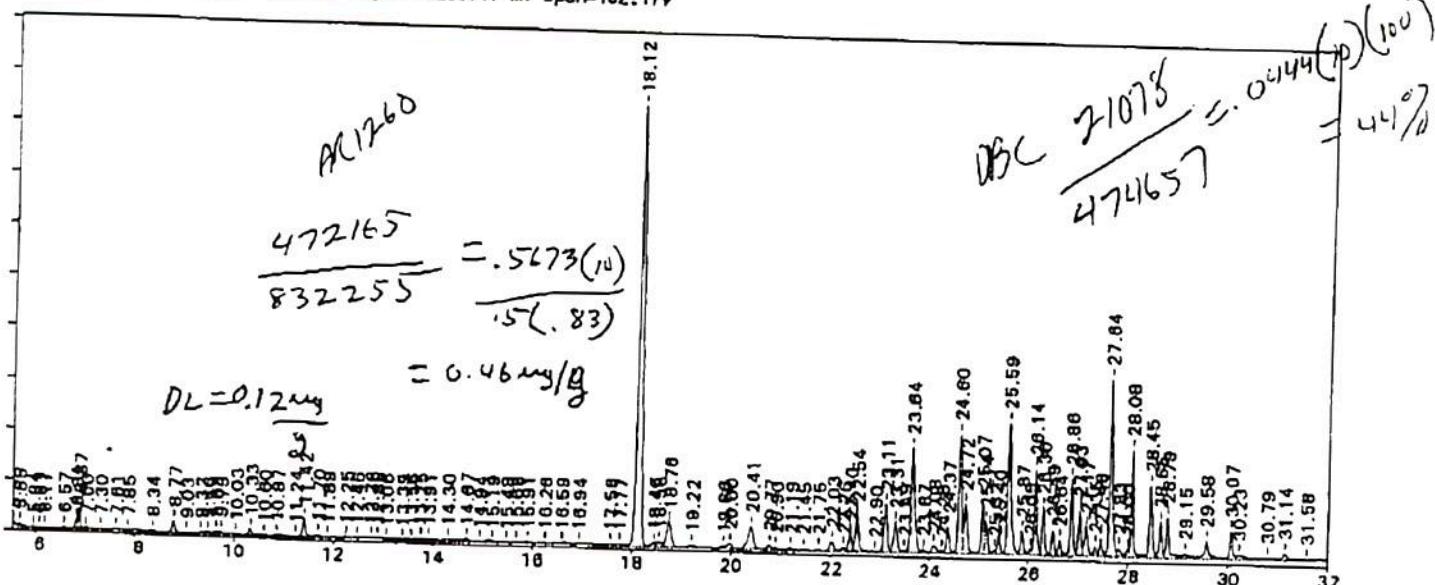
\* SAMPLE NAME: 950508-41 1/100 DILN  
 \* ANALYSIS DATE: May 16, 1995 11:40:01  
 \* OPERATOR: KD  
 \* INSTRUMENT ID: GC-A--ECD  
 \* METHOD FILE: C:\DIRECT\DATAA1\RUM.MET  
 \* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.32R  
 \* RUN TIME: 32  
 \*  
 \* DILUTION FACTOR: 1  
 \* AMOUNT INJECTED: 1

RTX-5 30Mx0.32mm 1 UL INJ  
 PEST/PCB BY 8080 MODIFIED

\*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

Peak #	Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.244		BV	54444	3926
2	1.952		VV	4473	1518
3	2.041		VV	17786	2669
4	2.174		VV	42072	4555
5	3.710		VB	1029	143
6	5.344		BB	450	126
7	5.932		BB	1349	345
8	6.809		BB	388	176
9	9.621		BV	822	212
10	9.855		VB	777	132
11	14.670		BB	1362	199
12	15.871		BB	9493	1743
13	18.115		BB	9557	1566
14	18.443		BV	1812	312
15	18.752		VB	17161	2658
16	19.986		BB	3426	489
17	20.404		BV	24401	3785
18	20.760		VB	1811	289
19	21.740		BB	1016	190
20	22.023		BV	4623	962
21	22.250		VV	966	221
22	22.393		VV	11932	2496
23	22.533		VB	13593	2851
24	23.104		BV	29875	6563
25	23.304		VV	17927	3632
26	23.496		VV	588	137

File=C:\DIRECT\DATAA1\0515A.33R Date printed=05-16-1995 Time= 12:15:44  
 Sample Name=950508-42  
 S. to 32.0 min. Low Y=124.538 High Y=226.717 mV Span=102.179



\*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

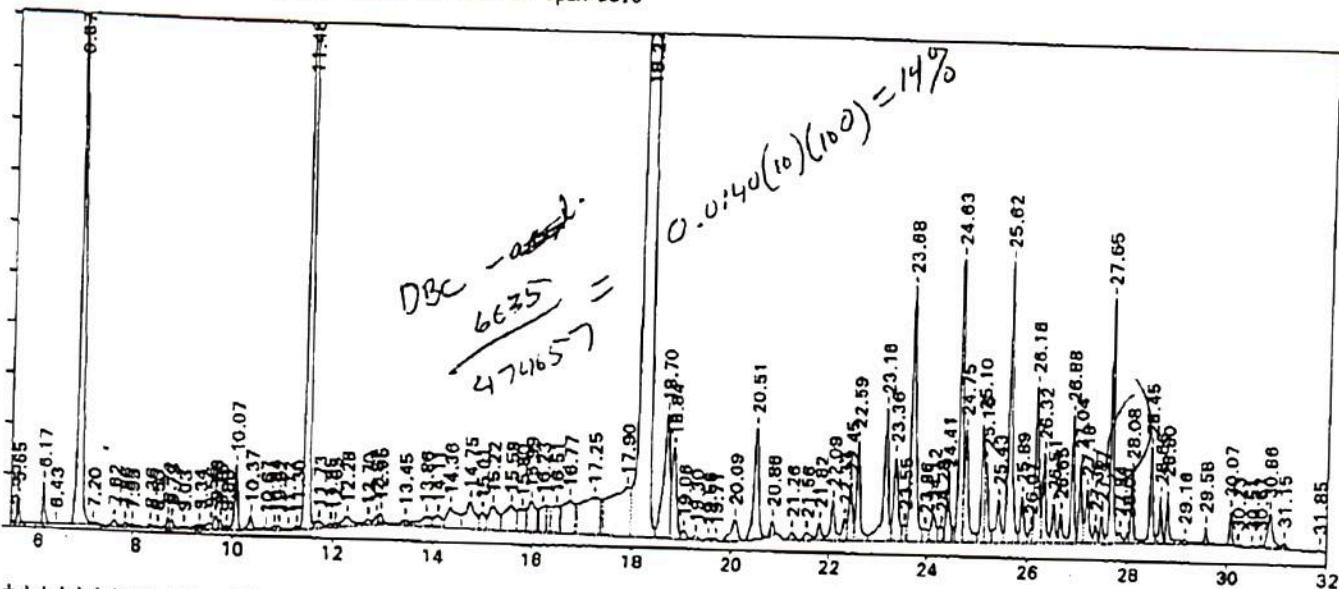
\* SAMPLE NAME: 950508-42  
 \* ANALYSIS DATE: May 16, 1995 12:15:41  
 \* OPERATOR: KD  
 \* INSTRUMENT ID: GC-A--ECD  
 \* METHOD FILE: C:\DIRECT\DATAA1\RUN.MET  
 \* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.33R  
 \* RUN TIME: 32  
 \*  
 \* DILUTION FACTOR: 1  
 \* AMOUNT INJECTED: 1

RTX-5 30Mx0.32mm 1 UL INJ  
 PEST/PCB BY 8080 MODIFIED

\*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

Peak #	Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.291		BB	1466086	80037
2	2.173		BB	367	148
3	3.153		BB	2226	555
4	3.565		BB	7240	1667
5	4.010		BB	499	175
6	4.479		BV	11228	3499
7	4.758		VV	10733	2041
8	5.085		VB	1014	287
9	5.349		BB	5436	1764
10	5.527		BV	2632	782
11	5.652		VB	2136	552
12	5.937		BB	682	151
13	6.070		BV	335	110
14	6.167		VB	560	187
15	6.565		BV	2637	303
16	6.810		VV	5475	1861
17	6.869		VV	12634	4309
18	7.003		VV	3131	356
19	7.299		VB	1570	193
20	7.615		BB	1211	235
21	7.846		BB	745	133
22	8.340		BB	298	121
23	8.772		BV	11049	2315
24	9.030		VV	1025	174
25	9.323		VV	2296	291
26	9.463		VV	3194	365

File=C:\DIRECT\DATAA1\0515A.34R Date printed=05-17-1995 Time= 12:16:33  
 Sample Name=950508-43  
 S.i to 32.0 min. Low Y=125.077 High Y=175.077 mv Span=50.0



\*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

\* SAMPLE NAME: 950508-43  
 \* ANALYSIS DATE: May 16, 1995 12:51:24  
 \* OPERATOR: KD  
 \* INSTRUMENT ID: GC-A--ECD  
 \* METHOD FILE: C:\DIRECT\DATAA1\RUN.MET  
 \* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.34R  
 \* RUN TIME: 32  
 \*  
 \* DILUTION FACTOR: 1  
 \* AMOUNT INJECTED: 1

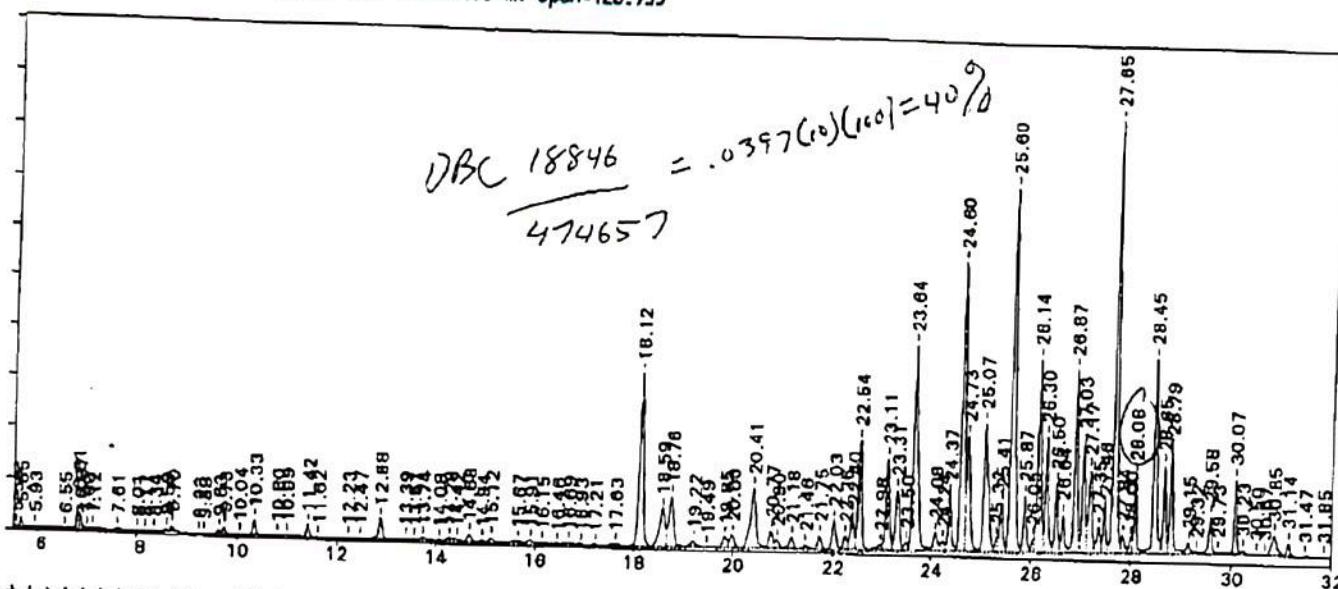
RTX-5 30Mx0.32mm 1 UL INJ  
 PEST/PCB BY 8080 MODIFIED

\*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

#	Peak Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.297		BV	2605087	147193
2	2.111		VV		668 295
3	2.172		VB		737 339
4	2.482		BB		523 94
5	3.571		BV		712 177
6	3.718		VV		5868 1246
7	4.010		VB		4315 930
8	4.481		BB		1400 426
9	4.759		BV		2181 555
10	4.913		VB		959 250
11	5.350		BB		11527 3655
12	5.554		BV		1328 319
13	5.655		VB		7664 2577
14	6.172		BB		12574 3941
15	6.430		BB		201 61
16	6.875		BB	294579	63488
17	7.202		BB		323 99
18	7.624		BV		3605 586
19	7.858		VV		2834 405
20	7.992		VV		2090 279
21	8.358		VV		1513 383
22	8.503		VB		816 230
23	8.719		BV		4532 1017
24	8.791		VV		3784 812
25	9.030		VV		2268 254
26	9.343		VV		3460 382

$$\frac{540339}{832255} = \frac{0.6492(10^0)}{15(-.98)} = \frac{-.4444}{9}$$

$$DL = 0.10$$



\*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

\* SAMPLE NAME: 950508-44  
 \* ANALYSIS DATE: May 16, 1995 13:27:07  $\frac{1260}{AR_{det}} = 15-18.385$   
 \* OPERATOR: KD  $\frac{1260}{832.255} =$   
 \* INSTRUMENT ID: GC-A--ECD  
 \* METHOD FILE: C:\DIRECT\DATAA1\RUN.MET  $\frac{1.8244(10)}{15(.78)} = 1.56 \mu g$   
 \* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.35R  
 \* RUN TIME: 32  
 \*  
 \* DILUTION FACTOR: 1  
 \* AMOUNT INJECTED: 1

RTX-5 30Mx0.32mm 1 UL INJ  
 PEST/PCB BY 8080 MODIFIED

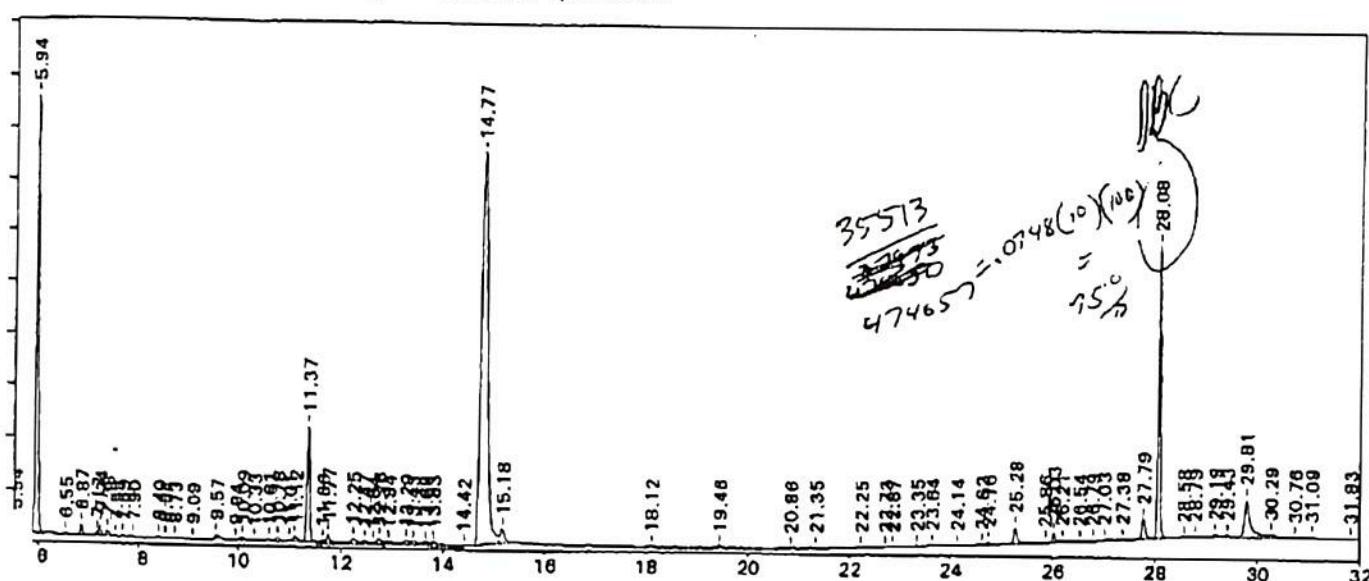
\*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

#	Peak Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.302		BV	2357056	128360
2	2.110		VV	2264	758
3	2.171		VB	6540	1105
4	3.156		BB	589	75
5	3.578		BV	3494	525
6	3.719		VV	5134	935
7	4.011		VB	1576	370
8	4.323		BV	229	52
9	4.484		VV	1581	361
10	4.757		VB	4054	850
11	5.033		BV	400	191
12	5.128		VB	1389	322
13	5.349		BB	1779	549
14	5.552		BV	633	159
15	5.653		VB	6404	2472
16	5.933		BB	1018	137
17	6.546		BB	598	105
18	6.809		BV	16838	5887
19	6.867		VV	10356	3703
20	7.005		VV	501	189
21	7.116		VB	1287	383
22	7.615		BV	3529	471
23	8.012		VV	448	124
24	8.167		VV	725	138
25	8.342		VB	1682	338
26	8.582		BB	2039	694

File=C:\DIRECT\DATAA1\0515A.28R Date printed=05-16-1995 Time= 09:16:53

Sample Name=PS-BLK12

5.5 to 32.0 min. Low Y=125.582 High Y=189.811 mv Span=64.229



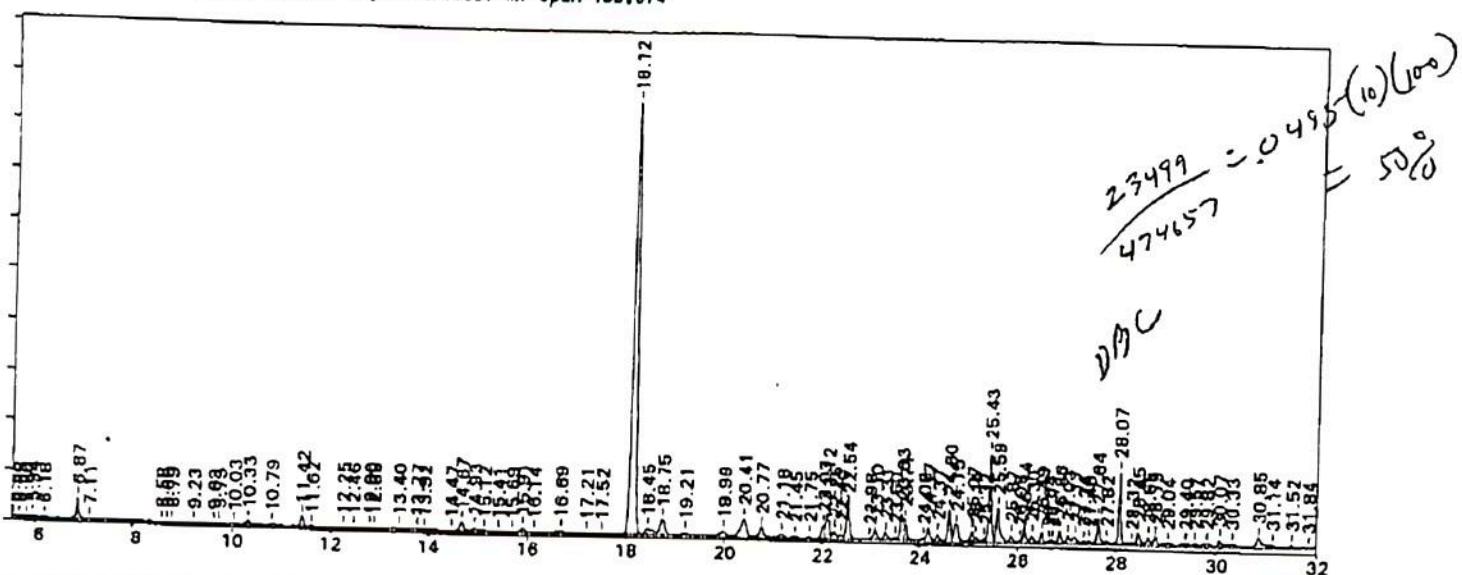
\*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

\* SAMPLE NAME: PS-BLK12  
\* ANALYSIS DATE: May 16, 1995 09:16:51  
\* OPERATOR: KD  
\* INSTRUMENT ID: GC-A--ECD  
\* METHOD FILE: C:\DIRECT\DATAA1\RUM.MET  
\* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.28R  
\* RUN TIME: 32  
\*  
\* DILUTION FACTOR: 1 RTX-5 30Mx0.32mm 1 UL INJ  
\* AMOUNT INJECTED: 1 PEST/PCB BY 8080 MODIFIED

\*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

Peak #	Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.275		BV	1390148	73582
2	1.953		VV	11712	4499
3	2.051		VV	69080	11234
4	2.175		VV	191944	29090
5	2.353		VB	48950	9228
6	2.790		BB	2656	915
7	3.084		BB	3268	600
8	3.256		BB	9664	2933
9	3.667		BB	1265	287
10	3.927		BV	13830	3740
11	4.092		VV	2029	738
12	4.151		VV	19451	5237
13	4.383		VV	1706	688
14	4.491		VB	956	373
15	4.759		BV	6835	1363
16	4.906		VB	7370	3029
17	5.074		BB	1637	764
18	5.239		BB	203	109
19	5.357		BB	1138	424
20	5.456		BB	621	283
21	5.535		BB	2131	758
22	5.942		BB	170048	53976
23	6.550		BB	1348	232
24	6.868		BB	3829	1264
25	7.172		BV	1790	517
26	7.245		VV	4016	1367

File=C:\DIRECT\DATAA1\0515A.36R Date printed=05-16-1995 Time= 14:02:55  
 Sample Name=950508-45  
 5.5 to 32.0 min. Low Y=124.583 High Y=290.657 my Span=166.074



\*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

\* SAMPLE NAME: 950508-45  
 \* ANALYSIS DATE: May 16, 1995 14:02:52  
 \* OPERATOR: KD  
 \* INSTRUMENT ID: GC-A--ECD  
 \* METHOD FILE: C:\DIRECT\DATAA1\RUN.MET  
 \* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.36R  
 \* RUN TIME: 32  
 \*  
 \* DILUTION FACTOR: 1  
 \* AMOUNT INJECTED: 1

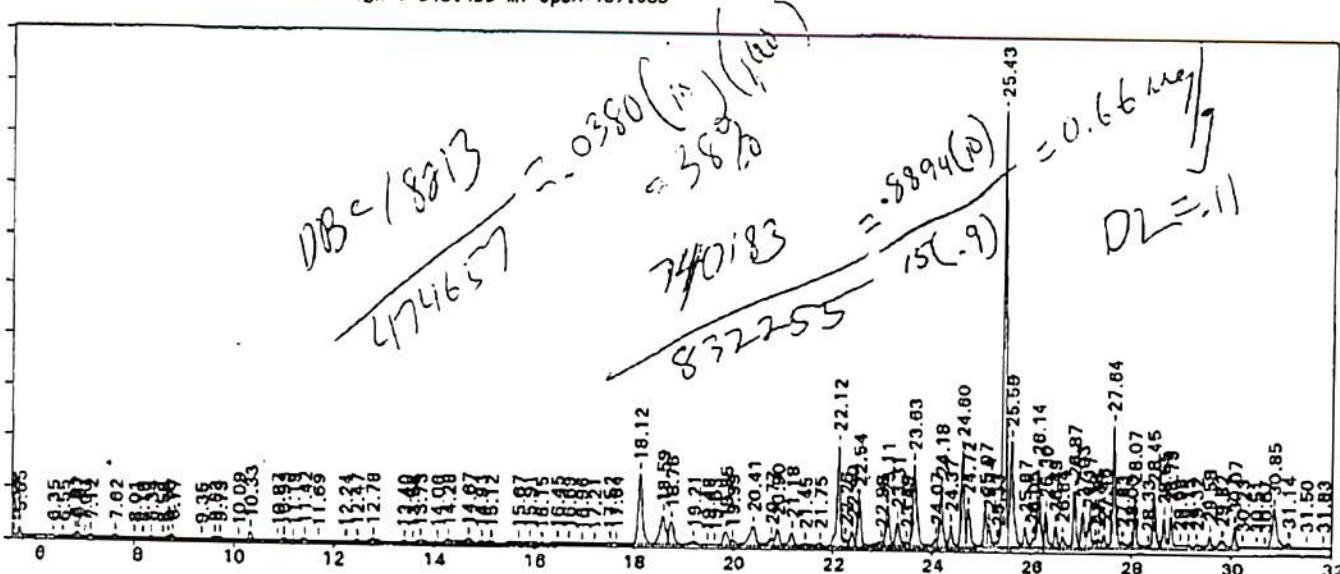
RTX-5 30Mx0.32mm 1 UL INJ  
 PEST/PCB BY 8080 MODIFIED

\*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

Peak #	Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.239		BV	53657	52516
2	1.275		VV	1259681	69384
3	2.172		VV	35238	3631
4	2.790		VV	1713	409
5	3.085		VB	1555	232
6	3.573		BV	1121	297
7	3.704		VB	1197	197
8	3.925		BB	558	241
9	4.150		BB	2337	743
10	4.481		BV	4681	1566
11	4.757		VV	10234	2400
12	5.128		VB	657	189
13	5.353		BB	2142	584
14	5.527		BV	505	179
15	5.652		VB	800	306
16	5.801		BV	1100	341
17	5.938		VV	2527	824
18	6.178		VB	1190	171
19	6.871		BV	22796	6660
20	7.115		VB	576	154
21	8.584		BV	390	103
22	8.695		VV	456	131
23	8.794		VB	1144	225
24	9.232		BB	262	92
25	9.625		BV	842	207
26	9.727		VV	1908	511

Sample Name=950508-46

5.5 min. 32.0 min. Low Y=124.369 High Y=313.435 mv Span=189.066



\*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

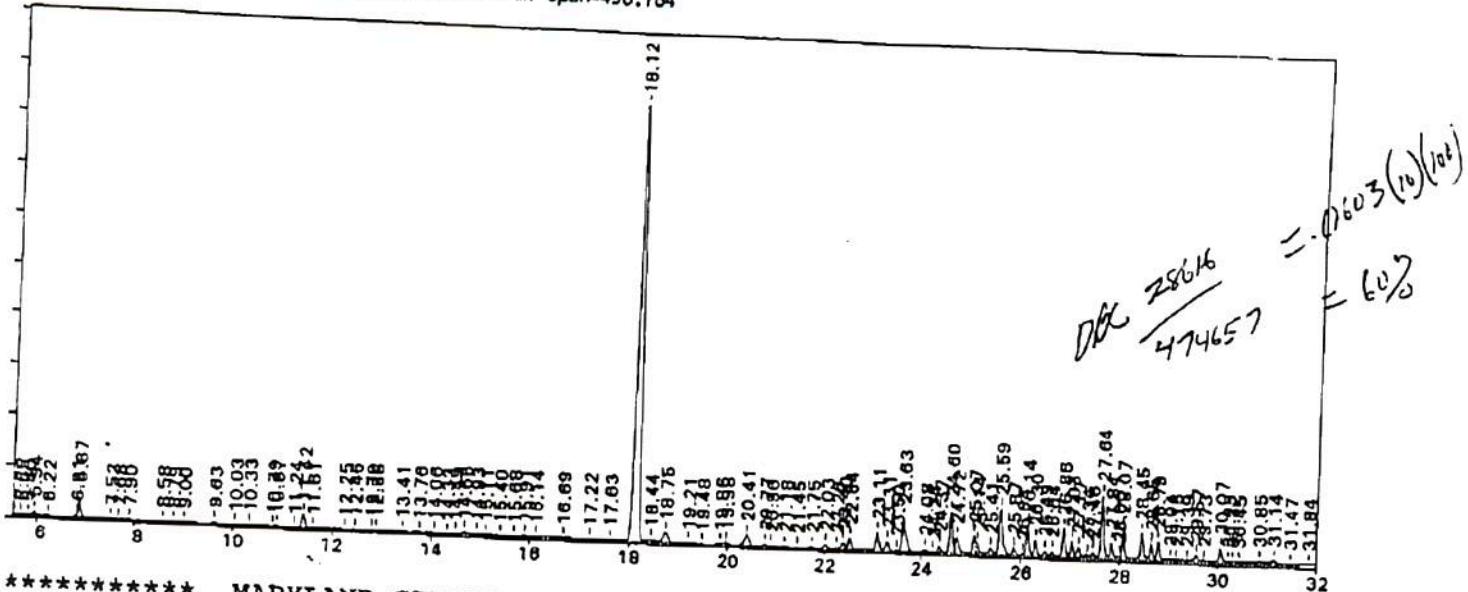
\* SAMPLE NAME: 950508-46  
 \* ANALYSIS DATE: May 16, 1995 14:38:34  
 \* OPERATOR: KD  
 \* INSTRUMENT ID: GC-A--ECD  
 \* METHOD FILE: C:\DIRECT\DATAA1\RUN.MET  
 \* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.37R  
 \* RUN TIME: 32  
 \*  
 \* DILUTION FACTOR: 1  
 \* AMOUNT INJECTED: 1

RTX-5 30Mx0.32mm 1 UL INJ  
PEST/PCB BY 8080 MODIFIED

\*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

Peak #	Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.240		BB	987137	66943
2	2.171		BB	384	176
3	3.567		BV	5471	1050
4	3.709		VV	4843	827
5	4.012		VV	1880	338
6	4.481		VV	17233	5180
7	4.756		VB	6025	1334
8	5.349		BB	3773	1112
9	5.534		BV	1010	246
10	5.652		VB	8864	3486
11	6.348		BB	678	138
12	6.548		BV	1970	188
13	6.808		VV	4749	1550
14	6.867		VV	5209	1628
15	7.001		VV	857	222
16	7.117		VB	3607	973
17	7.618		BV	6465	765
18	8.008		VV	481	131
19	8.178		VV	905	141
20	8.341		VB	2394	489
21	8.584		BV	913	208
22	8.698		VV	1816	567
23	8.773		VB	5355	1269
24	9.354		BB	503	98
25	9.626		BV	4773	1092
26	9.729		VB	3524	860

File=C:\DIRECT\DATAA1\0515A.38R Date printed=05-16-1995 Time= 15:14:22  
 Sample Name=950508-47  
 5.. to 32.0 min. Low Y=123.262 High Y=580.046 mV Span=456.784



\*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

\* SAMPLE NAME: 950508-47  
 \* ANALYSIS DATE: May 16, 1995 15:14:19  
 \* OPERATOR: KD  
 \* INSTRUMENT ID: GC-A--ECD  
 \* METHOD FILE: C:\DIRECT\DATAA1\RUN.MET  
 \* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.38R  
 \* RUN TIME: 32  
 \*  
 \* DILUTION FACTOR: 1  
 \* AMOUNT INJECTED: 1

RTX-5 30Mx0.32mm 1 UL INJ  
 PEST/PCB BY 8080 MODIFIED

*AR1760 752914 = .9047(10) = 0.63mug*  
*852255 15(.88) 9*  
*DL = 0.11 ug/g*

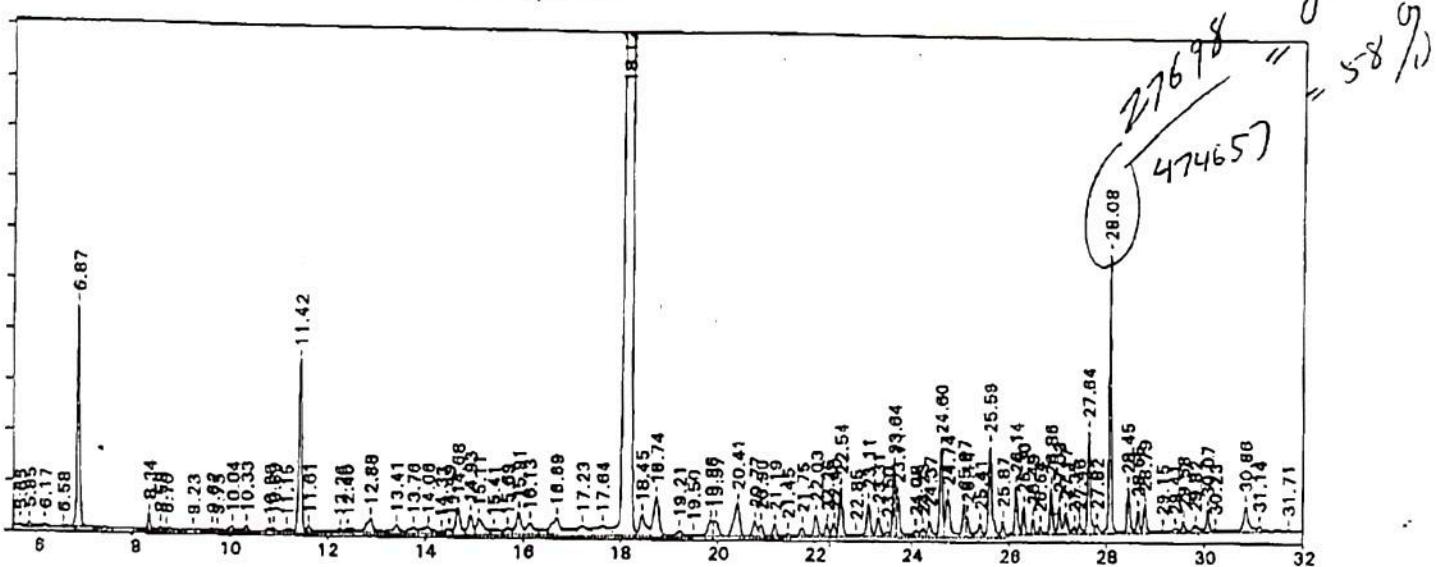
\*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

#	Peak Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.289		BV	1801670	95934
2	2.050		VV	5345	1044
3	2.174		VV	61013	6193
4	2.792		VV	3402	584
5	3.089		VV	9629	1454
6	3.377		VB	1230	227
7	3.570		BV	2887	612
8	3.720		VV	13768	2703
9	3.926		VV	2793	920
10	4.010		VV	12387	2931
11	4.151		VV	7512	2088
12	4.283		VV	1713	382
13	4.482		VV	12133	4107
14	4.758		VV	15302	3744
15	4.906		VV	4391	1111
16	5.130		VB	933	281
17	5.351		BB	22602	6754
18	5.527		BB	1708	656
19	5.652		BB	480	192
20	5.804		BV	898	177
21	5.940		VV	12311	4501
22	6.223		VB	1934	278
23	6.809		BV	5179	2221
24	6.870		VB	64384	18392
25	7.524		BB	345	112
26	7.680		BV	468	67

Le=C:\DIRECT\DATAA1\0515A.44R Date printed=05-17-1995 Time= 14:58:44

Sample Name=950508-48

5.5 to 32.0 min. Low Y=125.119 High Y=175.119 mV Span=50.0



\*\*\*\*\* MARYLAND SPECTRAL SERVICES, INC. \*\*\*\*\*

\* SAMPLE NAME: 950508-48  
\* ANALYSIS DATE: May 16, 1995 18:48:54  
\* OPERATOR: KD  
\* INSTRUMENT ID: GC-A--ECD  
\* METHOD FILE: C:\DIRECT\DATAA1\RUN.MET  
\* RAW DATA FILE NAME: C:\DIRECT\DATAA1\0515A.44R  
\* RUN TIME: 32  
\*  
\* DILUTION FACTOR: 1  
\* AMOUNT INJECTED: 1

ARU260 = .1709(10)<sup>=.134</sup>  
142261 = .1709(10)<sup>mg</sup>  
832255 :5(.85) <sup>DL = 0.12 mg</sup>  
2

RTX-5 30Mx0.32mm 1 UL INJ  
PEST/PCB BY 8080 MODIFIED

\*\*\*\*\* PEAKS DETECTED IN THIS CHROMATOGRAM \*\*\*\*\*

Peak #	Ret Time (min)	Compound Name	Peak Type	Peak Area	Peak Height
1	1.242		BV	343770	24748
2	2.174		VV	5787	1221
3	2.234		VV	18372	2092
4	2.619		VV	3099	332
5	3.093		VB	11577	1731
6	3.567		BB	5149	1327
7	4.010		BV	1796	471
8	4.151		VB	596	176
9	4.483		BV	17491	4211
10	4.758		VV	2428	602
11	4.916		VB	800	238
12	5.352		BB	26694	7848
13	5.531		BV	649	195
14	5.654		VB	716	278
15	5.851		BV	2618	515
16	6.172		VB	2196	432
17	6.576		BB	196	69
18	6.873		BB	76334	21802
19	8.344		BB	5019	1524
20	8.581		BB	757	247
21	8.699		BB	387	133
22	9.232		BB	307	94
23	9.625		BV	1024	288
24	9.727		VB	778	183
25	10.036		BV	3238	567
26	10.328		VV	2680	559